DIAL-UP ACCESS

to

FLINDERS UNIVERSITY
NETWORK SERVICES
New Modem Pool
Nos beginning with 8468

Windows NT Dial-up Networking

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Pre-requisite knowledge and skills

Please note it is intended that users of this manual must have reasonable knowledge and understanding of the operating system of their computer and use of the Internet, as well as appropriate navigation skills for using a mouse.
Dial-up Access to Flinders University Network Services

INTRODUCTION

Flinders University offers dial-up access to its computer networks for academic staff and postgraduate research students. The access is via telephone lines connected to a group of modems which handle speeds up to 56,700bps.

To use this facility you will need to have your own computer, a modem and a telephone line. The dial-up lines are protected against casual or illegal use by a security system that requires you to have a username and password to gain access to the network. This is quite separate from any login account and password you may have on any other computer systems, and you will need to apply for access and establish your credentials before a username will be allocated. Application forms are available from the central computer room on the ground floor of Physical Sciences or by ringing extension 12688 and asking for one to be sent out by mail.

The modem pool supports PPP (Point-to-Point) protocol which is in common use by all Internet service providers.

After establishing a dial-up connection refer to document named "Where to Go From Here" for further instructions.
Windows NT Dial-up Networking

The following procedure guides the user through installing and configuring components required to establish a dial-up connection between a PC (running Windows NT 4.0 workstation) and the Flinders University computing networks, it is divided into sections and assumes basic knowledge and navigation ability of Windows NT.

To create a successful connection a user must work through the following sections from beginning to end.

A. Requirements
B. Installing your Modem
C. Installing and Configuring Dial-up Networking

A. REQUIREMENTS

Windows NT 4.0 installed on your system.

Original Windows NT 4.0 software (CD-ROM or disks).

Modem.

The Telephone number for dialling into Flinders University.

Your Account UserID and Password.

The IP address of the Domain Name Servers (DNS).

B. INSTALLING YOUR MODEM

To configure a modem:

1. In Control Panel, click Network.

2. In the Services tab, select Remote Access Services.

3. Click Properties.

4. In the Remote Access Setup dialog box, select the port you want to configure for the modem, and click Add (Note: When configuring an unsupported modem, you must select from the list of supported modems a modem that matches yours as closely as possible.)
5. In the Add RAS Device dialog box, click Install Modem.

6. In the RAS Setup Wizard, check the box to select a modem from a list of supported modems.

7. From the list of modems, select the one that is most similar to your modem. Click Next, and continue with the Setup Wizard.

8. If you configure a new port for the modem, restart your computer. If you reconfigured a port already in use, you do not need to restart your computer, but you do need to stop and then restart RAS.

C. INSTALLING AND CONFIGURING DIAL-UP NETWORKING

Once you have the requirements follow the steps below to set up Dial-up Networking and get connected.

- Verify that Remote Access Services (RAS) has been installed
- Installing Remote Access Services (RAS) (if not already installed)
- Configure Remote Access Services
- Create a Dial-up Networking Connection
- Logging on using Dial-up Networking

Verify Remote Access Services (RAS) Installation

Although RAS is part of Windows NT setup it is not always installed with the initial installation. In order to proceed with setting up a Dial-up Networking connection, you must first verify that NT's Remote Access Services (RAS) is installed on your system.

To find out if it is already installed:

1. Double-click My Computer.
2. Then Control Panel.
3. Double-click the Network icon.
4. Select the Services tab.

You will see a list of all of the networking services that are currently installed on your system. Look for one labelled Remote Access Service.
If you see that listed, then you can go on to Configuring Remote Access Services. Otherwise, you need to continue to install Remote Access Services.

**Installing Remote Access Services (RAS)**

To add the Remote Access software:

1. In Control Panel, click the Network icon.
2. In the Services tab, click Add.
3. From the Network Service box, select Remote Access Service and then click OK.

(You will be prompted for your installation CD-ROM if RAS has not been previously loaded. The RAS files will be copied to your computer.)

**Configuring Remote Access Services (RAS)**

Now that you have RAS installed, you need to configure it to use the modem connected to your system.

To configure the Modem:

1. In Control Panel, click the Network icon.
2. In the Services tab, highlight Remote Access Service.
3. Click Properties. You will see a window titled Remote Access Setup, with no entries.
4. Click the Add button. The Add RAS Device window will appear. The Add RAS Device dialog box displays a list of all ports available to Windows NT for RAS. If you have successfully installed your modem, it will appear in this list.
5. Select the port you will use for remote access, and click Configure. The Configure Port Usage windows will appear. (By default, the Port Usage section will have Received Calls Only selected.)
6. Change Port Usage to the Dial Out Only option.

**Note:** If you intend to also configure your system to receive calls (not covered here) you can use the Dial Out and Receive calls option, however, WARNING: Setting your computer to accept calls can be dangerous if you don't set your security options correctly! You could be making your system available to anyone with a modem and your phone number.

7. Click the OK to continue.
8. Click the Network button in the Remote Access Setup window. The Network Configuration window appears.

9. Ensure that TCP/IP is the only protocol checked. Click OK.

10. Continue to return to the Network/Services window.

11. Close that window by clicking OK. If Windows NT prompts you to reboot, do so.

You can now go on to the next step, creating a dial-up networking connection.

**Creating a Dial-up Networking Connection**

You are now ready to get a connection set up.

To create a Connection:

1. Double click My Computer.

2. Double click the Dial-up Networking icon.

   **Note:** the first time you create a Dial-up Network connection, Windows NT will beep and present you with a window stating The phonebook is empty.

3. Click OK to continue. The New Phonebook Entry wizard will start.

4. Enter Flinders as the identifying name for the phonebook entry. Click OK.

5. In this next window Wizard asks for information about the server you are calling.

6. Check the third option.

   The non-Windows NT server I am calling expects me to type login information after connecting, or to know TCP/IP address before dialling.

7. Click Next.

8. In the next windows enter the PHONE number given to you by the operators, click Next. **NOTE:** There are two phone numbers, one for a 2 hour connection time and one for a 15 minute limit. You may wish to create two Phone Book entries, one for each (FLINDERS and EXPRESS)

9. You will then be asked for the Protocol to be used, select PPP, click the Next button.

10. Login Script window will appear.
11. Select Use a terminal window option. Click Next.

12. An IP Address windows appears, (as the IP number is dynamically assigned, you leave this entry at all zeros), click Next.

13. You are now prompted for the Name Server Addresses

   Enter 129.96.252.31 in the DNS server, click Next.

14. You will now see a window stating that you have completed the setup. Now you can log on.

Logging on using Dial-up Networking

Everything is set up correctly at this point, now you are going to manually log on.

1. Double click My Computer.

2. Double click Dial-up Networking. A window will appear with a drop-down box that has all of your Dial-up Network Connections listed (at this stage there will be probably only one Flinders).

3. Click the Dial button. A window will appear titled Connect to Flinders which asks for User name: Password: and Domain:

As you have specified that a terminal window should be displayed to enter UserID and Password leave these fields BLANK, just click OK.

4. Dial-up Networking will then dial the number for Flinders.

5. Once a phone connection has been established a Terminal window will appear. Press the Return key.

6. At the following prompts enter the details required in the ‘After Dial Terminal Window’.

   Username [enter your login name press return]

   Annex password [enter your password press return]

   Flinders University Gateway......................[will be displayed]

   Flin53007: [enter PPP press return]

   Various unrecognised characters may be displayed, this signifies the PPP has started.
7. Click the Done button and Dial-up Networking will complete the connection.

You can now use any of your Winsock compliant software, such as a Netscape, email, FTP, etc.